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CHM102 Assignment

1. i) $CH_3=C(OH)HCHO$
Functional group $= -\underset{\underset{OH}{|}}{C}=O$

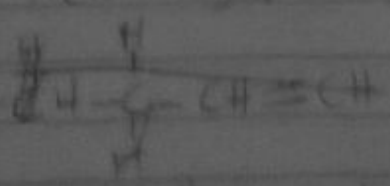
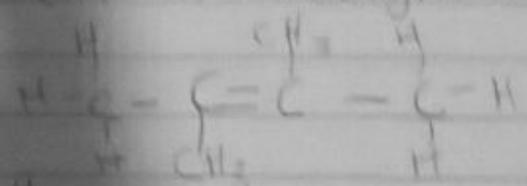
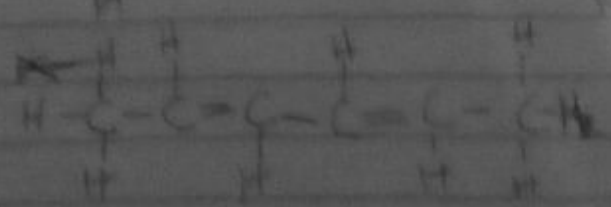
ii) $C_6H_5CH(NH_2)COCH_3$
Functional group $= -NH_2$

iii) $CH_3C=CHCH(OH)CHO$
Functional group $= -\underset{\underset{OH}{|}}{C}=O$

2. Specific rotation $= \dfrac{\alpha \text{ observed}}{C \times L}$

$= \dfrac{+1.0}{\left(\dfrac{0.856}{10}\right) \times 1.0}$

$= \dfrac{1}{0.0856 \times 1} = \dfrac{1}{0.0856}$

$= \underline{11.68^\circ}$

3. Hex-2,4-diene (ii) 2,3-Dimethyl but-2-ene